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Discovered Terms

21 [Tracking sub-page components in document workflows](#)

James A. Ollis, Steven R. Bagley, David F. Brailford

September 2008 DocEng '08: Proceeding of the eighth ACM symposium on Document engi  
Publisher: ACM

Full text available: Pdf (990.57 KB)

Additional Information: full citation, abstract, references, index to

Bibliometrics: Downloads (6 Weeks): 14, Downloads (12 Months): 22, Citation Count: 0

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Documents go through numerous transformations and intermediate formats as they are workflow, from abstract markup into final printable form. Unfortunately, it is common to about document components, which might exist in ...

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Keywords: COGs, DocBook, PDF, VDP, XSL-FO, XSLT, document components, documer education

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22 [UMA: a system for universal mathematics accessibility](#)

A. J. Karshmer, G. Gupta, E. Pontelli, K. Miesenberger, N. Ammaia, D. Gopal, M. Batusic, I Palmer, H-F. Guo

October 2004 Assets '04: Proceedings of the 6th international ACM SIGACCESS conference and accessibility

Publisher: ACM

Full text available: Pdf (194.27 KB)

Additional Information: full citation, abstract, references, cited by review

Bibliometrics: Downloads (6 Weeks): 12, Downloads (12 Months): 53, Citation Count: 4

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## FEEDBACK

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We describe the UMA system, a system developed under a multi-institution collaborator mathematics universally accessible. The UMA system includes translators that freely into mathematical documents transcribed in formats used by ...

Keywords: math accessibility, visually impaired

Also published in:

September 2003 SIGACCESS Accessibility and Computing Issue 77-78

23 [Finding hierarchical heavy hitters in streaming data](#)

Graham Cormode, Filip Korn, S. Muthukrishnan, Divesh Srivastava

January 2008 Transactions on Knowledge Discovery from Data (TKDD), Volume 1 Issue  
Publisher: ACM

Full text available: Pdf (885.94 KB)

Additional Information: full citation, abstract, references, index to

Bibliometrics: Downloads (6 Weeks): 43, Downloads (12 Months): 398, Citation Count: 0

Data items that arrive online as streams typically have attributes which take values from hierarchies (time and geographic location, source and destination IP addresses, etc.). Pr

aggregate view of such data is important for summarization, ...

Keywords: Data mining, approximation algorithms, network data analysis

## 24 A densitometric approach to web page segmentation

October 2008 CIKM '08: Proceeding of the 17th ACM conference on Information and knowledge management  
Publisher: ACM

Full text available:  Pdf (1.17 MB)

Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 6, Citation Count: 0


Web Page segmentation is a crucial step for many applications in Information Retrieval, classification, de-duplication and full-text search. In this paper we describe a new approach to segment HTML pages, building on methods from Quantitative ...

Keywords: full-text extraction, noise removal, template detection, web page segmentation

## 25 Industrial-strength schema matching

Philip A. Bernstein, Sergey Melnik, Michalis Petropoulos, Christoph Quix  
December 2004 SIGMOD Record, Volume 33 Issue 4

Publisher: ACM

Full text available:  Pdf (349.03 KB)

Additional Information: full citation, abstract, references, cited by


Bibliometrics: Downloads (6 Weeks): 14, Downloads (12 Months): 74, Citation Count: 11

Schema matching identifies elements of two given schemas that correspond to each other. There are many algorithms for schema matching, little has been written about building a schema matcher that can be used in practice. We describe our initial experience ...

## 26 Evaluating strategies for similarity search on the web

Teher H. Haveliwala, Aristides Gionis, Dan Klein, Piotr Indyk

May 2002 WWW '02: Proceedings of the 11th international conference on World Wide Web  
Publisher: ACM

Full text available:  Pdf (268.54 KB)

Additional Information: full citation, abstract, references, cited by

Bibliometrics: Downloads (6 Weeks): 21, Downloads (12 Months): 160, Citation Count: 29

Finding pages on the Web that are similar to a query page (Related Pages) is an important part of modern search engines. A variety of strategies have been proposed for answering Related Pages queries, but comparative evaluation by user studies is ...


Keywords: evaluation, open directory project, related pages, search, similarity search

## 27 Numbering matters: first-order canonical forms for second-order recursive types

Nadji Gauthier, François Pottier

September 2004 ICFP '04: Proceedings of the ninth ACM SIGPLAN international conference on Functional programming

Publisher: ACM

Full text available:  Pdf (173.08 KB)

Additional Information: full citation, abstract, references, cited by

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 9, Citation Count: 2

We study a type system equipped with universal types and higher-order recursive types, which we call  $\lambda F$ . We show that type equality may be decided in time  $O(n \log n)$ , an improvement over the known bound of  $O(n^2)$  ...

Keywords: equality, polymorphism, recursive types, unification

Also published in:

September 2004 SIGPLAN Notices Volume 39 Issue 9

28 [Extending XQuery with window functions](#)

Irina Botan, Donald Kossmann, Peter M. Fischer, Tim Kraska, Dana Florescu, Rokas Tamos  
September 2007 VLDB '07: Proceedings of the 33rd international conference on Very large  
Publisher: VLDB Endowment

Full text available:  Pdf (368.52 KB)

Additional Information: [full citation](#), [abstract](#), [references](#)

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 137, Citation Count: 0

This paper presents two extensions for XQuery. The first extension allows the definition of different kinds of windows over an input sequence; i.e., tumbling, sliding, and landmark. The second extension extends the XQuery data ...

29 [Clustering objects on a spatial network](#)

Man Lung Yiu, Nikos Mamoulis



June 2004 SIGMOD '04: Proceedings of the 2004 ACM SIGMOD international conference of data

Publisher: ACM

Full text available:  Pdf (867.67 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#)

Bibliometrics: Downloads (6 Weeks): 24, Downloads (12 Months): 179, Citation Count: 4

Clustering is one of the most important analysis tasks in spatial databases. We study the clustering objects, which lie on edges of a large weighted spatial network. The distance objects is defined by their shortest path distance ...

30 [The anatomy of a loop: a story of scope and control](#)

Olaf Shivers



September 2005 ICFP '05: Proceedings of the tenth ACM SIGPLAN international conference programming

Publisher: ACM

Full text available:  Pdf (189.27 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#)

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 55, Citation Count: 3

Writing loops with tail-recursive function calls is the equivalent of writing them with goto loop packages for Lisp-family languages have been around for over 20 years, it is striking have had much success in the Scheme world. ...

Keywords: compilers, continuations, control structures, functional programming, iterative calculus, macros, programming languages, scheme

Also published in:

September 2005 SIGPLAN Notices Volume 40 Issue 9

31 [AJAXSearch: crawling, indexing and searching web 2.0 applications](#)

Cristian Duda, Gianni Frey, Donald Kossmann, Chong Zhou

August 2008 Proceedings of the VLDB Endowment, Volume 1 Issue 2

Publisher: VLDB Endowment

Full text available:  Pdf (468.38 KB)

Additional Information: [full citation](#), [abstract](#), [references](#)

Bibliometrics: Downloads (6 Weeks): 15, Downloads (12 Months): 15, Citation Count: 0


Current search engines such as Google and Yahoo! are prevalent for searching the Web. dynamic pages, however, is either inexistent or far from perfect. AJAX and Rich Internet

such applications. They are increasingly frequent ...

### 32 Type-based analysis of uncaught exceptions

 Xavier Leroy, François Pessaux

March 2000 Transactions on Programming Languages and Systems (TOPLAS) , Volume  
Publisher: ACM

Full text available:  Pdf (425.96 KB)


Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#)

Bibliometrics: Downloads (6 Weeks): 7, Downloads (12 Months): 40, Citation Count: 5

This article presents a program analysis to estimate uncaught exceptions in ML program relies on unification-based type inference in a nonstandard type system, using rows to a the flow of escaping exceptions (a la effect ...

Keyw ords: SML, caml, exceptions, polymorphism, rows, static debugging, type and effi type inference

### 33 Communications of the ACM: Volume 51 Issue 10


 October 2008 Communications of the ACM

Publisher: ACM

Full text available:  Digital Edition ,  Pdf (7.16 MB) Additional Information: [full citation](#)


Bibliometrics: Downloads (6 Weeks): 11810, Downloads (12 Months): 11810, Citation Count: 0

### 34 Estimating compilation time of a query optimizer

 Ihab F. Ilyas, Jun Rao, Guy Lohman, Dengfeng Gao, Eileen Lin

June 2003 SIGMOD '03: Proceedings of the 2003 ACM SIGMOD international conference of data

Publisher: ACM


Full text available:  Pdf (292.76 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#)


Bibliometrics: Downloads (6 Weeks): 8, Downloads (12 Months): 62, Citation Count: 3

A query optimizer compares alternative plans in its search space to find the best plan fo Depending on the search space and the enumeration algorithm, optimizers vary in their time and the quality of the execution plan they ...

### 35 Collection synthesis

 Donna Bergmark

July 2002 JCDL '02: Proceedings of the 2nd ACM/IEEE-CS joint conference on Digital libr Publisher: ACM

Full text available:  Pdf (321.68 KB)


Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#)

Bibliometrics: Downloads (6 Weeks): 9, Downloads (12 Months): 59, Citation Count: 10

The invention of the hyperlink and the HTTP transmission protocol caused an amazing n appear on the Internet -- the World Wide Web. With the Web, there came spiders, robot crawlers, which go from one link to the next checking ...

Keyw ords: NSDL, World Wide Web, crawling, information retrieval clustering, mercator management

### 36 Communications of the ACM: Volume 51 Issue 8

 August 2008 Communications of the ACM

Publisher: ACM

Full text available:  Digital Edition ,  Pdf (6.85 MB) Additional Information: [full citation](#)

Bibliometrics: Downloads (6 Weeks): 752, Downloads (12 Months): 1872, Citation Count: 0

37 [Analyzing security protocols with secrecy types and logic programs](#) Martin Abadi, Bruno Blanchet

January 2005 Journal of the ACM (JACM) , Volume 52 Issue 1


Publisher: ACM

Full text available:  Pdf (438.64 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#)  
[review](#)

Bibliometrics: Downloads (6 Weeks): 24, Downloads (12 Months): 165, Citation Count: 10

We study and further develop two language-based techniques for analyzing security protocols based on a typed process calculus; the other, on untyped logic programs. Both focus on properties. We contribute to these two techniques, in particular ...

Keyw ords: Cryptographic protocols, logic programming, process calculi, secrecy proper

38 [Consistent load balancing via spread minimization](#) Robert Kleinberg, Tom Leighton

June 2003 STOC '03: Proceedings of the thirty-fifth annual ACM symposium on Theory of

Publisher: ACM

Full text available:  Pdf (224.59 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [index to](#)

Bibliometrics: Downloads (6 Weeks): 8, Downloads (12 Months): 44, Citation Count: 0

Motivated by applications to web caching and other distributed server architectures, we balancing algorithms from the standpoint of *spread*, which measures the number of different assignments an item receives across multiple iterations ...

Keyw ords: load balancing, on-line algorithms, randomized algorithms

39 [Topology management in ad hoc networks](#) Lichun Bao, J. J. Garcia-Luna-Aceves

June 2003 MobiHoc '03: Proceedings of the 4th ACM international symposium on Mobile networking &amp; computing


Publisher: ACM

Full text available:  Pdf (450.73 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#)

Bibliometrics: Downloads (6 Weeks): 12, Downloads (12 Months): 133, Citation Count: 11


The efficiency of a communication network depends not only on its control protocols, but topology. We propose a distributed topology management algorithm that constructs and backbone topology based on a minimal dominating set ...

Keyw ords: ad hoc networks, connected dominating set, minimum dominating set

40 [Design and implementation trade-offs for wide-area resource discovery](#) Jeanne Albrecht, David Oppenheimer, Amin Vahdat, David A. Patterson

September 2008 Transactions on Internet Technology (TOIT) , Volume 8 Issue 4

Publisher: ACM

Full text available:  Pdf (2.53 MB)Additional Information: [full citation](#), [abstract](#), [references](#), [index to](#)

Bibliometrics: Downloads (6 Weeks): 119, Downloads (12 Months): 119, Citation Count: 0

We describe the design and implementation of SWORD, a scalable resource discovery system for area distributed systems. In contrast to previous systems, SWORD allows users to describe resources as a topology of interconnected groups with ...

Keywords: PlanetLab, Resource discovery

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